# **LMA District Cover Sheet**

**Spring 2018 Levee Inspection Results** 

# **Reclamation District No. 2094 Wathal**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				
	** Non-receipt of Summ Reports may effect or			
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated	ratings are not determ d using the same criter			ual maintenance
FALL INSPECTIONS: The overall maintena within the attached u	•	•	tion and maintenance de ended to be an indiction o	
Comments				

## **Unit Cover Sheet**

**Spring 2018 Levee Inspection Results** 

## Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Right	2.78

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/13/2018 - 3/13/2018			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Brian Mizuno RD 2094			

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

## http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

# Levee Inspection Report By Mile - Spring 2018

# **Reclamation District No. 2094 Wathal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	03/13/2018 03/13/2018	Maksim Khashchuk

LM Start		Rating **	Α	Issue No.	10		
LM End		Issue Type +	Ма	Location *		N/A	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory	gory			Start		End	
Itom	Flood Pre	paredness & <sup>-</sup>	paredness & Training				0
пеш	Item				0		0
DWR ID	DWR_RD2	094_01_s _ 201	3_10				
	Comment Code						

## Inspector Comment

LMA has a flood response plan in the office. It is recommended for LMA and interested local volunteers to take a flood fight training class in order to refresh on skills and methods.

LM Start		Rating **	Α	Issue No.	11			
LM End		Issue Type +	Ма	Location *		N/A		
Category Earthen Levee			GPS La	atitud	le/Longitude			
				Start		End		
Item	Emergency Supplies &			0		0		
item	Equipmen	nt			0		0	
DWR ID	DWR_RD2	094_01_s _ 201	3_11					
		Comn	nent Cod	le				
		Inspecto	or Comm	nent				

Supplies available on-site.

LM Start		Rating **	Α	Issue No.		12		
LM End		Issue Type +	Ma	Location *		N/A		
Catagoni Earthen Levee				GPS La	GPS Latitude/Longitude			
Calegory	Category			Start		End		
Item	Operations & Maintenance Manuals			0		0		
пеш				0			0	
DWR ID	DWR_RD2	094_01_s _ 201	3_12					
		Comn	nent Cod	de				

Inspector Comment

O&M Manual available at LMA's office.

No Photos

No Photos

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

# Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	03/13/2018 03/13/2018	Maksim Khashchuk

LM Start	0.10	Rating **	М	Issue No.	sue No.		
LM End	0.10	Issue Type +	En	Location *		WS	
Catagony	Earthen Levee				GPS Latitude/Longitude		
Calegory	Category		Start		End		
Item	Encroach	ments		37.7716	85°	37.771685 °	
item			-121.3002	39°	-121.300239 °		
DWR ID	DWR_RD2	094_01_s _ 201	2_4				

Comment Code

RA: Ramp

## Inspector Comment

An access ramp has been built on the water side and extends into the channel. This could potentially alter the channel capacity. This item was also noted in the USACE comments.



Tire marks shown onto the ramp from levee. Raised area extends to the trees in the background in the center of the photo.

LM Start	0.24	Rating **	Α	Issue No.		6
LM End	2.75	Issue Type +	Ma	Location *		LS
Catagony	Earthen Levee			GPS Latitude/Longitude		
Category			Start		End	
Itom	Vegetatio	etation		37.7697	76°	37.749979°
ltem 5		-121.301221 °		-121.289210 °		
DWR ID	DWR_RD2	094_01_s _ 201	8_6			

#### Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

## Inspector Comment

Acceptable vegetation control.

# Photo 1 of 1 : SP\_2018\_RD2094\_320\_6\_20180314\_00015.jpg



View of the acceptable vegetation control on the levee slope.

# Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	03/13/2018 03/13/2018	Maksim Khashchuk

LM Start	0.65	Rating **	М	Issue No.		13
LM End	0.65	Issue Type +	En	Location *		
Category	Supplemental				tud	e/Longitude
Calegory				Start		End
Item	DWR UC	IP Field Study		37.76751	4 °	37.767514°
пеш				-121.29492	3°	-121.294926°
DWR ID						

#### Comment Code

## Inspector Comment

FS\_ID:21464 DS\_ID:23086 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - walkway in poor condition and needs repair.-

electric conduit on waterside.

FIELD\_STRUCT\_DESC: 14-inch concrete encased steel irrigation discharge pipe and galvanized iron (GI) electrical conduit through the levee, 10 feet below the crown. Two concrete cutoff walls. Pump mounted on a pile structure in the stream. Slide gate in a 54-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Concrete distribution box and service pole at the landside (LS) toe. Installed by USACE in 1962. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.66)].

FS Date: 9/10/2013

LM Start	0.65	Rating **	М	Issue No.	13 (cont)
LM End	0.65	Issue Type +	En	Location *	



WS view: gate valve in CMP riser (bottom) and pipe & pump (top) on piling structure in the channel.

#### Photo 2 of 3: UCIP SP 2018 21464 36404.jpg



WS view: pump on piling structure in the channel. Pipe (right- bottom) and conduit (bottom- left).

# Levee Inspection Report By Mile - Spring 2018

# **Reclamation District No. 2094 Wathal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	03/13/2018 03/13/2018	Maksim Khashchuk

LM Start	0.65	Rating **	M	Issue No.		13 (cont)		
LM End	0.65	Issue Type +	En	Location *				
Category	Supplemental			Supplemental GPS Latit		atitud	e/Longitude	
Calegory			Start		End			
Item	DWR UC	WR UCIP Field Study			14°	37.767514	0	
пеш			-121.2949	26 °	-121.294926	0		
DWR ID								

#### Comment Code

#### Inspector Comment

FS\_ID:21464 DS\_ID:23086 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - walkway in poor condition and needs repair.-

electric conduit on waterside.

FIELD\_STRUCT\_DESC: 14-inch concrete encased steel irrigation discharge pipe and galvanized iron (GI) electrical conduit through the levee, 10 feet below the crown. Two concrete cutoff walls. Pump mounted on a pile structure in the stream. Slide gate in a 54-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Concrete distribution box and service pole at the landside (LS) toe. Installed by USACE in 1962. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.66)].

FS Date: 9/10/2013



LS view: exposed pipe, service pole, and concrete distrinution box on levee toe.

LM Start	0.91	Rating **	М	Issue No.		8
LM End	0.91	Issue Type +	En	Location *		WS
Category	evee	GPS Latitude/Longitude				
Calegory			Start		End	
Item	Encroach	ments		37.76416	89°	37.764169°
пеш	-121.293562 ° -121.293562					
DWR ID DWR_RD2094_01_s _ 2017_8						
Comment Code						

#### AV: Abandoned vehicles

## Inspector Comment

Remove boat from the levee slope.

## Photo 1 of 1 : SP\_2018\_RD2094\_320\_8\_20180305\_00002.jpg



View of the boat on the levee slope.

# Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	03/13/2018 03/13/2018	Maksim Khashchuk

LM Start	1.25	Rating **	М	Issue No.		14
LM End	1.25	Issue Type +	En	Location *		
Category	Suppleme	GPS Lat	tud	e/Longitude		
Calegory			Start		End	
Item	DWR UC	IP Field Study		37.76058	1°	37.760581°
пеш				-121.29737	3°	-121.297373°
DWR ID						

#### Comment Code

## Inspector Comment

FS\_ID:21544 DS\_ID:23087 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - working as drainage system during field visit. Pump was not running.- electric conduit on WS- open pipe end in CMP

riser. CMP needs cleaning.

FIELD\_STRUCT\_DESC: 20-inch concrete encased steel irrigation discharge pipe through the levee, 10 feet below the crown. Two concrete cutoff walls. Pump mounted on a pile structure in the stream. Slide gate in a 54-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Concrete distribution box and service pole at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 1.27)]. FS Date: 9/10/2013

LM Start	1.25	Rating **	М	Issue No.	14 (cont)
LM End	1.25	Issue Type +	En	Location *	

## Photo 1 of 3: UCIP\_SP\_2018\_21544\_36524.jpg



WS view: overview of pump (top) and CMP riser (bottom)

#### Photo 2 of 3: UCIP SP 2018 21544 36523.jpg



WS view: pipe and pump on piling structure in the channel. Walkway in poor condition.

# Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	03/13/2018 03/13/2018	Maksim Khashchuk

LM Start	1.25	Rating **	М	Issue No.		14 (cont)
LM End	1.25	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longi		e/Longitude
Calegory						End
Item	DWR UC	UCIP Field Study		37.76058	1°	37.760581 °
пеш				-121.29737	3°	-121.297373 °
DWR ID						

# Comment Code

## Inspector Comment

FS\_ID:21544 DS\_ID:23087 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

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WS view: damaged gate valve handle in CMP riser on levee shoulder.

LM Start	2.25	Rating **	М	Issue No.		15
LM End	2.25	Issue Type +	En	Location *		
Category	Suppleme	ental	GPS Latitude/Longitude			
Category				Start		End
Item	DWR UC	IP Field Study	,	37.75223	80°	37.752230°
item				-121.29640	)8 °	-121.296408°
DWR ID						

## Comment Code

#### Inspector Comment

FS\_ID:41726 DS\_ID:23088 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - dense vegetation on WS.- working during field

survey.- slide gate not found on WS.

FIELD\_STRUCT\_DESC: 20-inch concrete encased steel irrigation discharge pipe through the levee, 6 feet below the crown. Two concrete cutoff walls. Slant pump mounted on a frame structure on the stream bank. Slide gate in a 54-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Concrete distribution box and service pole at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 2.30)]. FS Date: 9/10/2013

## Photo 1 of 3: UCIP\_SP\_2018\_41726\_36502.jpg



WS view: slant pump (top) on stream bank and CMP riser on levee shoulder.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	03/13/2018 03/13/2018	Maksim Khashchuk

LM Start	2.25	Rating **	М	Issue No.		Issue No. 15 (cd		15 (cont)
LM End	2.25	Issue Type +	En	Location *				
Category	Supplemental			GPS Latitude/Longitude				
Calegory	Category			Start		End		
Item	DWR UC	IP Field Study		37.75223	o°	37.752230		
пеш				-121.29640	3°	-121.296408		
DWR ID								

# Comment Code

#### Inspector Comment

FS\_ID:41726 DS\_ID:23088 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - dense vegetation on WS.- working during field

survey.- slide gate not found on WS.

FIELD\_STRUCT\_DESC: 20-inch concrete encased steel irrigation discharge pipe through the levee, 6 feet below the crown. Two concrete cutoff walls. Slant pump mounted on a frame structure on the stream bank. Slide gate in a 54-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Concrete distribution box and service pole at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 2.30)].

FS Date: 9/10/2013

LM Start	2.25	Rating **	М	Issue No.	15 (cont)
LM End	2.25	Issue Type +	En	Location *	

## Photo 2 of 3: UCIP\_SP\_2018\_41726\_36501.jpg



WS view: slant pump on stream bank and dense vegetation on stream bank.

## Photo 3 of 3: UCIP\_SP\_2018\_41726\_36500.jpg



WS view: inside view of CMP riser on levee shoulder. No slide gate found.

# Levee Inspection Report By Mile - Spring 2018

## **Reclamation District No. 2094 Wathal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	03/13/2018 03/13/2018	Maksim Khashchuk

LM Start	2.45	Rating **	М	Issue No.		16	
LM End	2.45	Issue Type +	En	Location *			
Supplemental			GPS Latitude/Longitude				
Calegory	Category			Start		End	
Item	DWR UCIP Field Study			37.7523	08°	37.752308	٥
пеш				-121.2931	91 °	-121.293191	0
DWR ID							

#### Comment Code

## Inspector Comment

FS\_ID:21545 DS\_ID:23089 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - no pipes found on either side of the levee.-concrete distribution box on LS. Soil erosion around distrinution box. FIELD\_STRUCT\_DESC: Rectangular concrete distribution box on the

landward toe FS Date: 9/10/2013

LM Start	2.45	Rating **	М	Issue No.	16 (cont)
LM End	2.45	Issue Type +	En	Location *	

## Photo 1 of 3: UCIP\_SP\_2018\_21545\_36529.jpg



WS view: no pipe found on waterside.

## Photo 2 of 3: UCIP\_SP\_2018\_21545\_36528.jpg



Enter photo 2 description or comment here.

# Levee Inspection Report By Mile - Spring 2018

# **Reclamation District No. 2094 Wathal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.78	03/13/2018 03/13/2018	Maksim Khashchuk

LM Start	2.45	Rating **	M	Issue No.		16 (cont)	
LM End	2.45	Issue Type +	En	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory	Category		Start		End		
Item	DWR UC	IP Field Study		37.75230	8°	37.752308 °	
пеш				-121.29319	1 °	-121.293191 °	
DWR ID							

## Comment Code

## Inspector Comment

FS\_ID:21545 DS\_ID:23089 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - no pipes found on either side of the levee.concrete distribution box on LS. Soil erosion around distrinution box. FIELD\_STRUCT\_DESC: Rectangular concrete distribution box on the

landward toe FS Date: 9/10/2013



LS view: erosion around a concrete standpipe on the landside toe.

## **Unit Cover Sheet**

**Spring 2018 Levee Inspection Results** 

## Reclamation District No. 2094 Wathal

Waterway	Bank	Unit Miles
Unit No. 02 San Joaquin River		0.45

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/13/2018 - 3/13/2018			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Brian Mizuno RD 2094			

#### Summer & Winter Inspections

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- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

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# Levee Inspection Report By Mile - Spring 2018

# **Reclamation District No. 2094 Wathal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.45	03/13/2018 03/13/2018	Maksim Khashchuk

LM Start	0.05	Rating **	С	Issue No.		2		
LM End	0.22	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Erosion / Bank Caving			37.7595	49°	37.760616°		
пеш	item			-121.300319°		-121.303081 °		
DWR ID	DWR ID DWR_RD2094_02_s _ 2017_2							
		Comn	nent Cod	le				
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spec	tion.		
	Inspector Comment							

No Photos

LM Start	0.08	Rating **	Α	Issue No.		1
LM End	0.42	Issue Type +	Ma	Location *		WS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory				Start		End
Item	Vegetation			37.7598	42 °	37.760621°
				-121.300809 °		-121.306804°
DWR ID	DWR_RD2094_02_s _ 2018_1					

## Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

## Inspector Comment

Acceptable vegetation control.

# Photo 1 of 1 : SP\_2018\_RD2094\_321\_1\_20180314\_00002.jpg



View of the acceptable vegetation control on the levee slope.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency

Ob : Design & System Obsolescence

En : Enforcement